

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for coupling to a vehicle and for training to activate a remote system, comprising:
a radio frequency transmitter having a training mode and an operational mode; integrated into a vehicle interior element and configured to send radio frequency messages to activate a remote system;
wherein the radio frequency transmitter is configured to identify a rolling code encryption algorithm for use with the remote system from a plurality of rolling code encryption algorithms;
wherein the radio frequency transmitter is further configured to synchronize a rolling code count of the remote system with a rolling code count of the radio transmitter during the training mode by transmitting, in response to a single user input, wherein each message includes an encrypted rolling value, wherein the transmitter is configured to send at least two of the messages having sequential encrypted rolling code values in accordance with the identified rolling code encryption algorithm; in response to a single user input;
wherein the radio frequency transmitter is configured to transmit a next encrypted rolling code in the sequence with the first transmission of the operational mode, the encrypted rolling values being from a sequence of rolling values, wherein the encrypted rolling values of the at least two messages are sequential values.
2. (Currently Amended) The device of radio frequency transmitter of Claim 1, wherein each of the at least two messages includes a transmitter identifier.
3. (Currently Amended) The device of radio frequency transmitter of Claim 1, wherein the radio frequency transmitter is configured to enter the training mode in response to the single user input. configured to send the at least two messages during a training operation.

4. (Currently Amended) The device of radio frequency transmitter of Claim 1, wherein the radio frequency transmitter is configured to send at least three messages having sequential encrypted rolling values in response to the single user input.

5. (Currently Amended) The device of radio frequency transmitter of Claim 1, wherein the radio frequency transmitter is further configured to send the at least two messages each of the first N times the single user input is actuated, wherein N is at least two, and thereafter to send one of the messages having the next encrypted counter value in the sequence in response to a single user input.

6. (Currently Amended) The device of radio frequency transmitter of Claim 1, wherein the radio frequency transmitter is configurable by a user to activate one or more of a plurality of different remote systems using different radio frequency messages.

7. (Currently Amended) The device of radio frequency transmitter of Claim 6, wherein the radio frequency transmitter is configured to identify at least one of the plurality of different remote systems based on a radio frequency signal received from an original transmitter associated with the at least one remote system.

8. (Cancelled).

9. (Currently Amended) The device of radio frequency transmitter of Claim 6, wherein the radio frequency transmitter is configured to identify at least one of the plurality of different remote systems based on a user input.

10. (Currently Amended) The device of radio frequency transmitter of Claim 1, configured to control a garage door opener.

11. (Cancelled).

12. (Cancelled).

13-15. (Cancelled).

16. (Currently Amended) A method of providing a counter value and a transmitter identifier to a receiver configured to control a system, comprising:

in a training mode, identifying a rolling code encryption algorithm for use with the receiver from a plurality of rolling code encryption algorithms;

in ~~[[a]]~~the training mode, receiving a single user input;

in response to the single user input, transmitting a plurality of sequential encrypted counter values, in accordance with the identified rolling code encryption algorithm, to the receiver; and

in an operating mode, transmitting a next sequential encrypted counter value in response to a user input.

17. (Currently Amended) The method of Claim 16, further comprising identifying the rolling code encryption algorithm for use with the receiver by determining the type of receiver.

18. (Currently Amended) The method of Claim 17, wherein the type of receiver is determined ~~identified~~ based on a radio frequency signal received from an original transmitter associated with the receiver.

19-20. (Cancelled)

21. (Previously Presented) The radio frequency transmitter of Claim 1, wherein the single user input is a button press.

22. (Previously Presented) The method of claim 17, further comprising commanding the receiver to enter a training mode by pressing a button on the receiver.

23. (Previously Presented) The method of claim 22, wherein, after the receiver is in the training mode, transmitting at least three sequential encrypted counter values to the receiver in response to the single user input.

24. (Previously Presented) The method of claim 16, wherein the plurality of sequential encrypted counter values causes the receiver to open a garage door.

25. (Currently Amended) A radio frequency remote control system, comprising:
a receiver; and
a transmitter integrated into a vehicle interior element and configured to identify a rolling code encryption algorithm for use with the receiver from a plurality of rolling code encryption algorithms and configured to send at least two sequential encrypted rolling code messages in response to one user input and in accordance with the identified rolling code encryption algorithm, ~~wherein the two messages are sequential transmission of a rolling code system;~~ [[and]]

wherein [[a]] the receiver is configured to synchronize with the transmitter by decrypting the based on the sequential encrypted rolling code messages and checking for whether the counters obtained by the decryptions are sequential according to the encryption and decryption algorithms used by the radio frequency remote control system. ~~two messages.~~

26. (Currently Amended) The radio frequency remote control system of claim 25, wherein the receiver is configured to activate a garage door opener to move the garage door in response to the two sequential encrypted rolling code messages.

27. (Currently Amended) The radio frequency remote control system of claim 25, wherein the transmitter is configured to send the at least two sequential encrypted rolling code messages each of the first N times the user input is actuated, wherein N is at least two, and thereafter to send one of the messages having a next encrypted counter value in a sequence in response to a single user input.

28. (Currently Amended) The radio frequency remote control system of claim 25, wherein the transmitter is configurable by a user to activate one or more of a plurality of different receivers using different encryption algorithms and radio frequency messages.

29. (Currently Amended) In a method of training a transmitter to a receiver in a rolling code-based radio frequency control system, the improvement comprising:

identifying a rolling code encryption algorithm for use with the receiver from a plurality of rolling code encryption algorithms and, in response to a single user input, using ~~[[a]]the identified~~ rolling code encryption algorithm to provide at least two sequential counter values and transmitting the at least two sequential counter values to the receiver.

30. (Previously Presented) The method of claim 29, further comprising sending the same transmitter identifier with each of the at least two sequential counter values, wherein the at least two sequential counter values cause the receiver to open a garage door.